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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

September, 1979

1. Highlights:

The Bureau continued its team inspections of state industries for the emission inventory system update.

2. Ambient Air Quality Network:

a. Standards Exceeded: Because the state is revising its monitoring network to comply with EPA guidelines, this information is not available for September.

b. Air Stagnation Advisories - None in September

c. Laboratory Status

Total Determinations for Month	3,469
Total Samples for Month	696

3. Permits and Tax Credits:

a. Construction permits applied for:

U.S. Air Force, Malmstrom AFB, central heating plant
Fibre, Inc. (Gordon-Prill), Missoula Co., pelletized wood fuel
Phillips Petroleum, Black Eatle, towers, furnaces, pumps, compressors, lines, reactors
Hilde Construction, Sweet Grass, crusher and hot plant
Zook Brothers, Sanders Co., batch plant
Mortenson Construction, Teton Co. crusher & screening plant
Empire Sand & Gravel, Big Horn Co., portable crusher
Montana Dept. of Highways, Garfield Co., hot plant
Baltrusch Construction, Beaverhead Co., crusher and asphalt plant

Permits approved:

Department of Highways, Carbon Co., hot plant
Peter Kiewit Sons, Big Horn Co., crusher; asphalt plant
Meyer Construction, Powell Co., crusher
Meyer Construction, Dawson Co., crusher
Meyer Construction, Wibaux Co., pugmill cold mix operation
Meyer Construction, Wibaux, asphalt plant
McIntyre Construction, Wheatland Co., crusher
Konitz Contracting, Cascade, Choteau & Lewis & Clark Counties, crusher
Konitz Contracting, Fergus & Judith Basin Counties, crusher
McIntyre Construction, Teton Co., crusher
James Kraus Contractor, Big Horn Co., asphalt plant and crusher

c. Tax Credits: None

4. Variance Status:

a. Current

ASARCO, rule 16-2.14(1)-S1470(2), Sulfur Oxide Emissions applicable to lead-zinc complex, final compliance due June 30, 1980

Berg Lumber, rule 16-2.14(1)-S1490, Open Burning, final compliance date June, 1980

The Anaconda Co., application for variance from sulfur oxide emissions, hearing scheduled November 16, 1979

Anaconda Aluminum, application for variance from fluoride emissions, hearing scheduled November 16, 1979

b. New - None

5. Enforcement Actions:

a. Citations:

City of Red Lodge, Red Lodge, MT 790920-JV-1; landfill in violation of rule 16-2.14(1)-S1490, Open Burning restrictions.

Helena Sand & Gravel, Helena, MT 790921-SS-1; Asphalt plant in violation of rule 16-2.14(1)-S1460 Visible Air Contaminants, Restrictions

Exxon Company, Billings, MT 790906-DH-1 Coke handling and loading facility in violation of rule 16-2.14(1)-S1440(1) Particulate Matter, Airborne

Dugdale Construction, Butte, MT 790913-DH-2 Asphalt Plant in violation of rule 16-2.14(1)-S1415 (1) Permits

Dugdale Construction, Butte, MT 790907-BN-1, Asphalt Plant in violation of rule 16-2.14(1)-S1460 Visible Air Contaminants

Dugdale Construction, Butte, MT 790913-DH-1 Asphalt Plant in violation of rule 16-2.14(1)-S1460 Visible Air Contaminants.

McIntyre Construction, Three Forks, MT, gravel crusher in violation of opacity rule

b. Notice of Violation - None

c. Order to Take Corrective Action - None

6. Tepee Burner and Open Burning:

No. of tepee burners in operation - approximately 20

Open Burning Permits Issued:

Kalispell office	179	Sanders County	22
Cascade County	7	Yellowstone County	15
Lake County	38	Rest of State	318
Missoula County	5	Total	584

7. Source Tests Performed:

   a. Agency source tests - None

   b. Non-agency source tests - None

8. Field Investigations:

Continental Oil Storage Tanks, Cut Bank, odor complaint, minor problem
Phillips Petroleum, Great Falls, routine inspection
Anaconda Reduction Works, Great Falls, routine inspection
McIntyre Construction, Three Forks, response to complaint, citation issued
Montana Sulphur, Billings, inspection
McIntyre Construction, Billings, inspection
Barry O'Leary, Billings, inspection
Empire Sand & Gravel, Billings, inspection
Eline Oil Field Services, Cut Bank, response to complaint, follow up action will be taken
Montana Power Corette Plant, Billings, inspection
Great Western Sugar, Billings, inspection
Peavy Grain Mill, Billings, inspection
The Anaconda Company, Great Falls, inspection
Helena Sewage Treatment Plant, Helena, inspection
Helena Sand & Gravel, Helena, investigation, citation issued

9. Complaints:

Eline Acid, Cut Bank, acid mist, inspection and follow-up
Cut Bank, oil storage tanks, odor, inspection
Musselshell County road, Roundup, dust, investigation
Helena Sewage Treatment Plant, Helena, odor, inspection
American Asphalt Company, Kalispell, dust, investigation
American Asphalt Company, Kalispell, dust from crusher, investigation
Dugdale Construction, Butte, dust, odors, hearing before Board of Health
Stoltze-Conner, Darby, smoke, inspection
Paxson Street, Butte, dust, referred to local government
Refineries, Billings, odors and smoke, investigation
Logging operation, Lakeside, dust, attempting to contact owner
C & C Plywood, Kalispell, soot, controls on boiler
Elevators, Baker, dust, referred to local sanitarian
USFS Slash burn, Darby, smoke, referred to Forest Service
Goulding Creek Road, Musselshell Co., dust, conferred with county commissioners

10. Data Processing Services:

A. Ambient Data Summary - See attached for month of August

b. Emission Inventory Status: Private contractor is working to update the system.

c. Prevention of Significant Deterioration: No activity this month.

d. Modeling - None

11. Environmental Impact Statements:

Work is progressing on the EIS for the Ambient Air Quality Standards for Montana. A final statement is anticipated in December, 1979.

12. Status of Studies, Contracts and Reports:

Flathead River Basin Study, progressing well, first year report due in October
Poplar River Study, progressing well, all equipment operating
MAPS, all phases are operating on schedule, budget for FY 80 has been drafted, various reports are being printed

13. Schools and Training:

None in September

14. Public Hearings and Meetings:

a. Board of Health meeting, permit issued to Dugdale Construction was discussed

b. Meetings Attended:

Highway Department, Helena, on DESPUR
Great Falls City-County Health Dept., Great Falls, inspections
Cut Bank Senior Citizens, Cut Bank, oil storage tank odors
Flathead River Steering Committee, Kalispell,

c. Intra-staff meetings:

Bureau staff meetings
MAPS staff meetings
MAAQS meetings

15. Public Information Requests:

Several MAPS reports were mailed out
Copies of the rules were sent out
Clean Air Act of Montana was mailed out

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

August 1979

Pollutant: Total Suspended Particulate Units: micrograms/m^3

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
140	Morton-Decker Bldg Horn Co.	129	129	129	43	8	
	Warren Ranch Bldg Horn Co.	113	113	113	39	7	
	KSHL Billings	99	99	99	40	8	
	City Hall Billings	151	288	288	80	7	1 exc. Fed. Sec. Std.
	Grand Ave. Sch. Billings	147	302	302	46	8	
	Central Park Billings	227	246	246	82	8	9 exc. Fed. Sec. Std.
	Lockwood School Billings	123	123	123	76	4	
	Laurel Jr. High Laurel	88	88	88	43	7	
141	Kiwanis Park Great Falls	92	111	111	51	8	
142	HiWay Jct. Anaconda	66	86	86	44	7	
	Lincoln School Anaconda	100	303	303	50	8	
	Floral Park Butte	75	112	112	55	8	
	McKinley Res. Granite Co.	93	97	97	48	8	
	Traphagen Hall Bozeman	72	91	91	39	8	

Pollutant: Total Suspended Particulate Units: micrograms/m^3

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
142	Dr. Canty Res. Granite Co.	100	181	181	68	8	
	Greeley School Butte	113	196	196	85	8	
	Hebgen Park Butte	124	225	225	79	8	
	Tierney Res. Silver Bow Co.	74	80	80	40	8	
	Microwave Jefferson Co.	58	89	89	36	8	
	212 E. Pacific East Helena	128	181	181	81	8	
	Cogswell Bldg. Helena	83	211	211	61	8	
143	Lindsay Dawson Co.	183	183	183	43	8	2 exc. Fed. Sec. Std.
	Lame Deer Rosebud Co.	47	143	143	20	8	
	Fort Peck McCone County	153	153	153	29	8	1 exc. Fed. Sec. Std.
	BN Site Colstrip	174	174	174	53	8	
	McRae Site Colstrip	54	69	69	21	8	
	Border Site Scobey	68	68	68	22	8	*
144	Anders Res. Col. Falls	210	375	375	143	8	2 exc. Fed. Sec. Std.
	NAAC Col. Falls	57	63	63	28	8	

Pollutant: Total Suspended Particulate Units: micrograms/m^3

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
144	Ronan Lake County	240	311	311	110	8	3 exc. Fed. Sec. Std.
	Polson Lake County	188	188	188	76	7	1 exc. Fed. Sec. Std.
	Libby-Brown Lincoln Co.	254	610	610	204	8	3 exc. Fed. Sec. Std.
	Kalispell-Strom Flathead Co.	156	343	343	89	8	1 exc. Fed. Sec. Std.
	Courthouse Roof Missoula	144.7	267	267	90	8	
	Lion's Park Missoula	111.1	419.4	419.4	94.6	8	
	Rose Park Missoula	108.7	317.3	317.3	86.7	8	
	Hoerner-Wald. #1 Missoula Co.	73.8	118	118	42.8	8	
	Hoerner Wald. #2 Missoula Co.	93.2	157.7	157.7	46.0	8	
	Kalispell Airport Flathead Co.	109	120	120	52	7	

Dichotomous

Pollutant: Respirable Particulate- Sampler Units: micrograms/m^3

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
140	Central Park Billings			***			
141	Kiwanis Park Great Falls			***			
	Lincoln School Anaconda coarse	17.8	157.7	157.7	21.2	6	
	fine	17.0	261.3	261.3	15.8	6	
	Hebgen Park Butte coarse	55.1	82.9	82.9	35.3	5	
	fine	21.6	22.7	22.7	13.3	5	
	Floral Park FS Butte coarse	31.7	78.1	78.1	22.0	7	
	fine	16.6	36.1	36.1	13.6	7	
143	Border Site Scobey			***			
144	Lion's Park Missoula coarse	19.0	184.2	184.2	42.1	7	
	fine	78.7	83.2	83.2	22.0	7	
	Courthouse Roof Missoula			***			
	Kalispell Airport Flathead Co. coarse	43.3	61.5	61.5	23.4	8	
	fine	25.7	98.7	96.7	16.8	8	

*** - Data unavailable at time of report.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

August 1979

Pollutant: Miscellaneous Continuous Data Units: ppm

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Carbon Monoxide						
142	Alpine West Butte	2.1	2.1	2.1	1.0		
	Lincoln School Anaconda			**			
144	Lion's Park Missoula			**			
	Hydrocarbons						
142	Hebgen Park Butte			**			
	Lincoln School Anaconda			**			
	Lion's Park Missoula	2.38	2.5	2.5	1.83		
	Ozone						
140	Central Park Billings	0.145	0.145	0.145	0.028	8	
142	Lincoln School Anaconda	0.082	0.082	0.082	0.033	8	
	Hebgen Park Butte	0.117	0.117	0.117	0.037	8	
144	Lion's Park Missoula			**			

** - Analyzer down, no data.

Pollutant: Miscellaneous Continuous Data Units: ppm

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Nitrogen Dioxide						
140	Central Park Billings	0.110	0.110	0.110	0.012	1	
141	Kiwanis Park Great Falls	0.038	0.050	0.050	0.008	6	
142	Lincoln School Anaconda			**			
144	Lion's Park Missoula			**			
	Sulfur Dioxide						
140	Central Park Billings	0.068	0.245	0.245	0.011	8	
	Lockwood School Billings	0.195	0.350	0.350	0.013	8	
	Laurel Farm Laurel	0.16	0.74	0.74	0.034	8	
141	Kiwanis Park Great Falls	0.020	0.070	0.070	0.001	6	
142	Hiway Jct. Anaconda	0.48	2.30	2.75	0.028	8	
	Mill Creek Anaconda	2.00	2.00	2.00	0.039	8	
	Lincoln School Anaconda	4.21	4.21	4.21	0.037	8	
	Microwave Jefferson Co.	0.06	0.17	0.17	0.0	8	
	Broudy Ranch Jefferson Co.	0.06	0.08	0.08	0.0	8	

** - Data unavailable, equipment malfunction.

Pollutant: Miscellaneous Indicators Units

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Dustfall-tons/sq. mile						
141	Mountain States Great Falls	6.83	26.59	26.59	13.59	8	
	Fire Sta. #1 Great Falls	6.11	37.20	37.20	13.83	8	
	Sulfation Rate-mg Oz/100 sq. cm						
140	West Central Billings	0.30	0.56	0.56	0.36	8	
	Farm E of Conex Billings	0.71	1.51	1.51	0.92	8	
141	Stock Car Track Great Falls	0.015	0.617	0.617	0.188	7	
	Phillips Ref.N1 Great Falls	0.049	0.617	0.617	0.265	7	
	Phillips Ref. E Great Falls	0.062	1.200	1.200	0.372	8	
142	Microwave East Helena	0.13	0.56	0.56	0.22	6	
	212 E. Pacific East Helena	0.12	0.37	0.37	0.23	8	
	East Stack Sta. East Helena	0.09	0.47	0.47	0.23	8	
	Broudy Ranch East Helena	0.08	0.27	0.27	0.11	8	
	2580 Prickly Pear East Helena	0.08	0.31	0.31	0.14	8	

Pollutant: Miscellaneous Indicators Units:

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Fluoride Papers mg/sq cm/30 days						
144	Dehlbon's Mt. Bot. Flathead Co.			**			
	Anaconda South Flathead Co.	6.08	11.42	11.42	5.98	8	
	Glacier Park #1 Glac. Nat. Park	0.25	0.69	0.69	0.43	7	
	Glacier Park #9 Glac. Nat. Park	0.16	0.37	0.37	0.28	7	
	Fluoride Plates-mg/sq cm/30 days						
144	Anaconda South Flathead Co.	11.93	26.22	26.22	8.47	8	
	Trailer-MAAC Flathead Co.	1.40	1.73	1.73	1.20	8	
	Glacier Park #1 Glac. Nat. Park	0.30	0.86	0.86	0.44	6	
	Glacier Park #9 Glac. Nat. Park	0.17	0.29	0.29	0.23	7	

** - Data unavailable, no valid sample.